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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,902	02/10/2006	Koji Abe	285805US0PCT	7273	
23265 7590 O41679099 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAM	EXAMINER	
			WEINER, LAURA S		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
			1795		
			NOTIFICATION DATE	DELIVERY MODE	
			04/16/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Application No. Applicant(s) 10/567.902 ABE ET AL. Office Action Summary Examiner Art Unit /Laura S. Weiner/ 1795 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 10 February 2006. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1.2 and 4-9 is/are rejected. 7) Claim(s) 3 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 2-10-06; 4-18-08.

Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)
Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Page 2

Application/Control Number: 10/567,902

Art Unit: 1795

DETAILED ACTION

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-2, 4-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abe et al. (WO 2004/012295 or US 2005/0250007).

Abe et al. ('0007) teaches on page 1, [0002-0005], a battery comprising a positive electrode of LiCoO2, LiMn2O4 or LiNiO2, a negative electrode comprising graphite having a lattice spacing (d002) of 0.335 to 0.340 nm and an electrolyte. Abe et al. ('007) teaches on page 1, [0016], that the non-aqueous solvents can be cyclic carbonates such as PC, EC, VC, etc; lactones such as gamma-butyrolactone, linear carbonates such as methyl ethyl carbonate, dimethyl carbonate, diethyl carbonate, etc.; esters such as dimethyl oxalate and compounds containing S=O group such as 1,3, propanesultone, etc. Abe et al. teaches on page 2, [0024], that the battery exhibits 4.3 V.

Abe et al. discloses the claimed invention except for specifically teaching that the electrolyte solution comprises dialkyl oxalate and further comprising vinylene carbonate and/or 1.3-propanesultone.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use both solvents, dimethyl oxalate and further vinylene Application/Control Number: 10/567,902

Art Unit: 1795

carbonate and/or 1,3-propanesultone in the electrolyte taught by Abe et al. because it is prima facie obvious to combine two compositions each of which is taught by prior art to be useful for the same purpose in order to form a third composition that is to be used for the very same purpose. See *In re Kerkhoven, 205 USPQ 1069; In re Susi, 169 USPQ 423.*

Abe et al. discloses the claimed invention except for specifically teaching that the electrolyte solution comprises dialkyl oxalate and further comprising vinylene carbonate and/or 1,3-propanesultone and further comprising a cyclic carbonate such as propylene carbonate or ethylene carbonate with a linear carbonate such as methyl ethyl carbonate, dimethyl carbonate or diethyl carbonate or a combination of a cyclic carbonate such as EC or PC with a lactone such as gamma butyrolactone.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use multiple solvents, dimethyl oxalate, vinylene carbonate and/or 1,3-propanesultone and further comprising a cyclic carbonate such as propylene carbonate or ethylene carbonate with a linear carbonate such as methyl ethyl carbonate, dimethyl carbonate or diethyl carbonate or a combination of a cyclic carbonate such as EC or PC with a lactone such as gamma butyrolactone in the electrolyte taught by Abe et al. because it is prima facie obvious to combine two compositions each of which is taught by prior art to be useful for the same purpose in order to form a third composition that is to be used for the very same purpose. See In re Kerkhoven, 205 USPQ 1069; In re Susi, 169 USPQ 423.

Art Unit: 1795

Allowable Subject Matter

 Claim 3 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to /Laura S. Weiner/ whose telephone number is 571-272-1294. The examiner can normally be reached on M-F (6:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Laura S Weiner/ Primary Examiner Art Unit 1795